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DOCKET NO.: UCSD-0019 / SD2003-226-111I

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of:

**Michael D. Burkart and James J. LaClair**      **Confirmation No.: 1801**  
**Application No.: 10/561,108**      **Group Art Unit: 1652**  
**Filing Date: May 11, 2006**      **Examiner: Not Yet Assigned**  
**For: COMPOSITIONS AND METHODS FOR ANALYSIS AND MANIPULATION  
OF ENZYMES IN BIOSYNTHETIC PROTEOMES**

DATE OF DEPOSIT: September 8, 2006

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID, ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE UNITED STATES PATENT AND TRADEMARK OFFICE, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450.

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 Commissioner for Patents  
 P.O. Box 1450  
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Dear Sir:

**INFORMATION DISCLOSURE STATEMENT**

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

- In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of

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the above identified application as set forth in § 1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first Office Action after the filing of request for continued examination under § 1.114, no additional fee is required.

- In accordance with § 1.97(c), this Information Disclosure Statement is being filed after the period set forth in § 1.97(b) above but before the mailing date of either a Final Action under § 1.116 or a Notice of Allowance under § 1.311, or before an action that otherwise closes prosecution in the application, therefore:
  - Certification in Accordance with § 1.97(e) is attached; or
  - The fee of \$180.00 as set forth in § 1.17(p) is attached.
- In accordance with § 1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with § 1.97(e); and the submission fee of \$180.00 as set forth in § 1.17(p).
- Copies of reference numbers 3 - 34 listed on the attached Form PTO-1449 are enclosed herewith.
- Copies of reference numbers 1 - 2 on the attached Form PTO 1449 are not required to be submitted pursuant to 37 CFR § 1.98(a)(2)(i).
- Copies of references - are not being submitted because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application number , filed for which a claim for priority under 35 U.S.C. § 120 has been made in the instant application.

**DOCKET NO.: UCSD-0019 / SD2003-226-111I- 3 -**

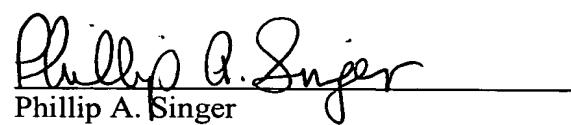
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- The relevance of those listed references which are not in the English language is as follows:

There are no listed references which are not in the English language.

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

Date: September 8, 2006

  
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<p><b>Form No. PO-1449 Modified</b></p> <p>List of Patent and Publications Cited by Applicant (Use several sheets if necessary)</p> <p>U.S. Department of Commerce Patent and Trademark Office</p>	<p>Docket No. UCSD-0019 / SD2003-226-111I</p> <p>Applicant Michael D. Burkart and James J. LaClair</p> <p>Filing Date May 11, 2006</p> <p>Group 1652</p> <p>Confirmation No. 1801</p>	<p>Application No. 10/561,108</p>
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## **U. S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO

**EXAMINER**

**DATE CONSIDERED**

<b>Form PTO-1449 Modified</b>		Docket No. UCSD-0019 / SD2003-226-111I	Application No. 10/561,108
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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
	<b>3</b>	Ahmed, M.S. et al., "Inhibition of Lactose Transport in <i>E. Coli</i> by N-Ethylmaleimide- $\beta$ -Galactoside, N-Ethylsuccinimide- $\beta$ -Galactoside and N-Ethylmaleimide," <i>Membrane Biochem.</i> , <b>1980</b> , 3(4), 329-340	
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	<b>5</b>	Belshaw, P.J. et al., "Aminoacyl-CoAs as Probes of Condensation Domain Selectivity in Non-ribosomal Peptide Synthesis," <i>Science</i> , <b>1999</b> , 284, 486-489	
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	<b>10</b>	Courtois, S. et al., "Recombinant Environmental Libraries Provide Access to Microbial Diversity for Drug Discovery from Natural Products," <i>Appl. Environ. Microbiol.</i> , <b>2003</b> , 69(1), 49-55	
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	<b>12</b>	Doekel, S. et al., "Review: Biosynthesis of Natural Products on Modular Peptide Synthetases," <i>Metab. Eng.</i> , <b>2001</b> , 3, 64-77	
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	<b>13</b>	Du et al., "The biosynthetic gene cluster for the antitumor drug bleomycin from <i>Streptomyces verticillus</i> ATCC15003 supporting functional interactions between nonribosomal peptide synthetases and a polyketide synthase," <i>Chemistry and Biology</i> , <b>2000</b> , 7, 623-642	
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